



COMMONWEALTH of VIRGINIA  
DEPARTMENT OF FORENSIC SCIENCE

CENTRAL LABORATORY  
A Nationally Accredited Laboratory

700 NORTH 5TH STREET  
RICHMOND, VIRGINIA 23219  
(804) 786-6971

CERTIFICATE OF INSTRUMENT ACCURACY

INSTRUMENT: Intox EC/IR II  
SERIAL NUMBER: 010575  
CERTIFICATION DATE: November 22, 2013  
DATE RECERTIFICATION DUE: May 21, 2014

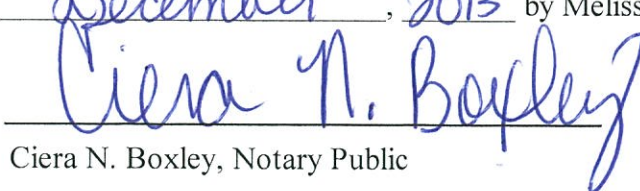
The above listed instrument was found to meet all requirements for accuracy and performance established by the Department of Forensic Science. This certification is valid from the above listed certification date until the above listed date for recertification.



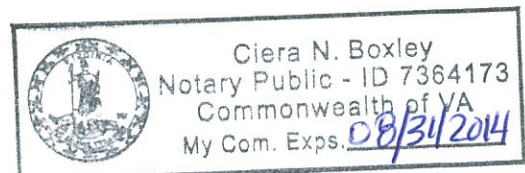
Melissa Kennedy  
Program Manager, Calibration & Training

CITY OF RICHMOND  
COMMONWEALTH OF VIRGINIA

The foregoing was acknowledged before me this 2<sup>nd</sup> day of  
December, 2013 by Melissa Kennedy

  
Ciera N. Boxley, Notary Public

My commission expires: August 31, 2014  
TLN



**Department of Forensic Science**  
**Breath Alcohol Section**  
**Instrument Maintenance History**  
**1/1/1990 To 11/25/2013**

HMS  
WJH

**Instrument Serial Number: 010575**

**As of 25-Nov-13**

<b>Maintenance Date</b>	<b>Certification Date</b>	<b>Technician Initials</b>	<b>Remarks</b>
22-Nov-13	22-Nov-13	HMS (18910)	FIRMWARE/SOFTWARE UPGRADE, CALIBRATED AND CERTIFIED.
31-May-13	31-May-13	HMS (18910)	CERTIFIED, REPLACED DRY GAS STANDARD.
18-Dec-12	18-Dec-12	HMS (18910)	CERTIFIED
09-Jul-12	09-Jul-12	HMS (18910)	CERTIFIED
27-Jan-12	27-Jan-12	HMS (18910)	CERTIFIED, REPLACED DRY GAS STANDARD.
10-Aug-11	10-Aug-11	HMS (18910)	REPLACED DRY GAS STANDARD, CERTIFIED
02-Mar-11	02-Mar-11	HMS (18910)	CERTIFIED
14-Sep-10	14-Sep-10	HMS (18910)	CERTIFIED
09-Mar-10	09-Mar-10	NMJ (22392)	REPLACED TANK TOP LID, CERTIFIED.
20-Apr-09	20-Apr-09	HMS (18910)	CERTIFIED.
15-Apr-09	15-Apr-09	NMJ (22392)	FIRMWARE/SOFTWARE UPGRADE, CERTIFIED.
13-Feb-09	13-Feb-09	DBH (21250)	CALIBRATED, CERTIFIED AND ACCEPTED.

HMS  
M&L

## INTOX EC/IR II Quality Assurance Worksheet

Instrument Serial Number 010575 Worksheet Start Date 11/22/2013

Location South Hill Police Department

Address 103 S. Brunswick Ave., South Hill, VA 23970

DFS Technician Heather Stanton License No. 18910

☐ Laboratory ☒ On-Site

### Site Specifications

Yes No

**1 Secured Environment:**

Location must not be accessible to the general public.

☒ ☐

**2 Environment free from contaminants**

☒ ☐

**3 Dedicated telephone line:**

The phone line should be used solely by the instrument.

☒ ☐

**4 Adequate Ventilation:**

Enough space must be provided for the instrument and the printer to allow for adequate ventilation.

☒ ☐

**5 Stable temperature controls:**

The instrument should not be exposed to direct sources of temperature variation.

☒ ☐

**6 115VAC power source:**

Whenever possible instrument power circuit should not be shared with refrigerators, copy machines or other high amperage devices.

☒ ☐

**7 Room Condition:**

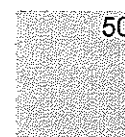
The site should be free of excessive moisture, heat and dust.

☒ ☐

Old serial no. New serial no.

E-Seek  
Keyboard  
Printer  
UPS

Supplies  
Mouthpieces  
Certificates of Analysis  
Operator Worksheet  
Other:



Maintenance (if any)  
Firmware/software upgrade.

Comments (if any)

Instrument Serial Number 010575

Certification Date 11/22/2013

Instrument Barometer (mm HG) 754

Reference Barometer (mm HG) 758

Reference Barometer(RB)Serial # 009113

RB Calibration Due 5/8/2014

<b>Standard (sea level)</b>	<b>PA Target</b>	<b>minimum</b>	<b>maximum</b>	<b>Sample 1</b>	0.245
0.250	0.248	0.240	0.255	<b>Sample 2</b>	0.245
<b>Precision</b>		<b>sample min</b>	<b>sample max</b>	<b>Sample 3</b>	0.244
0.001		0.244	0.245		

<b>Standard (sea level)</b>	<b>PA Target</b>	<b>minimum</b>	<b>maximum</b>	<b>Sample 1</b>	0.148
0.150	0.148	0.143	0.152	<b>Sample 2</b>	0.148
<b>Precision</b>		<b>sample min</b>	<b>sample max</b>	<b>Sample 3</b>	0.148
0		0.148	0.148		

<b>Standard (sea level)</b>	<b>PA Target</b>	<b>minimum</b>	<b>maximum</b>	<b>Sample 1</b>	0.079
0.080	0.079	0.076	0.082	<b>Sample 2</b>	0.079
<b>Precision</b>		<b>sample min</b>	<b>sample max</b>	<b>Sample 3</b>	0.079
0		0.079	0.079		

<b>Standard (sea level)</b>	<b>PA Target</b>	<b>minimum</b>	<b>maximum</b>	<b>Sample 1</b>	0.019
0.020	0.020	0.017	0.023	<b>Sample 2</b>	0.019
<b>Precision</b>		<b>sample min</b>	<b>sample max</b>	<b>Sample 3</b>	0.019
0		0.019	0.019		

all measurements are in g/210L

Estimation of Uncertainty of Measurement and traceability records are located within the Breath Alcohol Section

☒ Calibrated☒ Certified☐ Replaced dry gas standard (+O-ring)

Dry gas standard Lot No. (with tank no.)

AG230501-32

☒ Measurement Assurance Check☒ Run a Breath Test (Instrument Test)

(successful completion denotes satisfactory condition of the item)

<b>Standard (sea level)</b>	<b>PA Target</b>	<b>minimum</b>	<b>maximum</b>	<b>Sample 1</b>	0.099
0.100	0.099	0.096	0.102	<b>Sample 2</b>	0.100
<b>Precision</b>		<b>sample min</b>	<b>sample max</b>	<b>Sample 3</b>	0.099
0.001		0.099	0.100		

DFS Technician

*Heath W. Starke*

Date

11/25/13

Issuing Analyst

*Melissa Kennedy*

Date

11/26/13

Intox EC/IR II QA Worksheet

Issued by Calibration and Training Program Manager

Issue Date: 4-March-2013

*TEN*

DFS Document 250-F113

Revision 6

Page 2 of 2

Handwritten initials: HWS, MSL




COMMONWEALTH OF VIRGINIA  
DEPARTMENT OF FORENSIC SCIENCE

CERTIFICATE OF BLOOD ALCOHOL ANALYSIS  
AS DETERMINED BY A CHEMICAL TEST OF THE ACCUSED'S BREATH

NAME OF ACCUSED	NAME OF COURT
INSTRUMENT, TEST,	DFS

BREATH ANALYSIS

SAMPLE EXAMINED AND TEST CONDUCTED BY		AGENCY
STANTON, HEATHER, M		DFS Central Lab
DFS LICENSE NUMBER	LICENSE EXPIRES	DATE TEST CONDUCTED
18910	10/01/2014	11/22/2013
TEST EQUIPMENT NUMBER		
010575		

RESULTS: TIME SAMPLE TAKEN 09:40 EST

SAMPLE'S ALCOHOL CONTENT 0.00 GRAMS PER 210 LITERS OF BREATH

ATTEST:

I CERTIFY THAT THE ABOVE IS AN ACCURATE RECORD OF THE TEST CONDUCTED; THAT THE TEST WAS CONDUCTED WITH THE TYPE OF EQUIPMENT AND IN ACCORDANCE WITH THE METHODS APPROVED BY THE DEPARTMENT OF FORENSIC SCIENCE; THAT THE TEST WAS CONDUCTED IN ACCORDANCE WITH THE DEPARTMENT'S SPECIFICATIONS; THAT PRIOR TO ADMINISTRATION OF THE TEST THE ACCUSED WAS ADVISED OF HIS RIGHT TO OBSERVE THE PROCESS AND SEE THE BLOOD ALCOHOL READING ON THE EQUIPMENT USED TO PERFORM THE BREATH TEST, AND THAT I POSSESS A VALID LICENSE TO CONDUCT SUCH TEST, GIVEN UNDER MY HAND THIS \_\_\_\_\_ DAY OF \_\_\_\_\_, 20\_\_\_\_\_.

BREATH TEST OPERATOR
----------------------

☐ I HAVE RECEIVED A COPY OF THIS CERTIFICATE OF ANALYSIS \_\_\_\_\_  
SUBJECT'S SIGNATURE

☐ SUBJECT REFUSED TO SIGN FOR COPY OF CERTIFICATE OF ANALYSIS \_\_\_\_\_  
OPERATOR'S SIGNATURE





# IntoxNet MIS Report

Report Generated 22 Nov 2013 at 10:18

TLN  
HMS  
NHL

## Test Results

Instrument Serial Number 010575

Test # 000346 Subject Test

Test Location 1 Department of  
Test Date 22 Nov 2013

Test Location 2 Forensic Science  
Test Time 09:34  
Remote/Local Local

Test Location 3  
System Check Passed

Operator's Last Name STANTON  
Agency DFS Central Lab

Operator's First Name HEATHER

Operator's Middle Initial M  
License Number 18910

Card Serial Number 118910

Effective Date 10/01/2012

Expiration Date 10/01/2014

Subject's Last Name INSTRUMENT

Subject's First Name TEST

Subject's Middle Initial

Subject's Date of Birth 00/00/0000

Subject's Sex Male

Driver's License Number

Driver's License Expiration 00/00/0000

Driver's License State

Court Name DFS

End Date 22 Nov 2013 End Time 09:41

Result Time 09:40

Result Date 22 Nov 2013 Result 0.00

Data Type DIAG

Sample Value Pass

Sample Time 09:34

Data Type BLK

Sample Value 0.000

Sample Time 09:35

Data Type CHK

Sample Value 0.101

Sample Time 09:36

Data Type BLK

Sample Value 0.000

Sample Time 09:37

Data Type SUBJ

Sample Value 0.000

Sample Time 09:38

Data Type BLK

Sample Value 0.000

Sample Time 09:39

Data Type SUBJ

Sample Value 0.000

Sample Time 09:40

Data Type BLK

Sample Value 0.000

Sample Time 09:41

Standard Type Dry Gas Std

Standard Value 0.099

Standard Lot Number AG230501-32

Standard Expiration Date 10/31/2014

Tank Pressure 1066

Barometric Pressure 754 mmHg

Blow Sample Number 1 Blow Duration 3.07 sec

Blow Volume 1797 cc End-of-Blow Time 09:38

Blow Sample Number 2 Blow Duration 3.06 sec

Blow Volume 1744 cc End-of-Blow Time 09:40

Tamper Evident Stamp ffea5265

Test Status Code 0

Test Status Success

HMS  
msl

**Intox EC/IR-II: Certification**

*Department of Forensic Science*

Serial Number: 010575      Test Number: 347  
Test Date: 11/22/2013      Test Time: 09:42 EST

Technician Initials: HMS

Dry Gas Target: 0.099

Lot Number: AG230501-32      Exp Date: 10/31/2014

Tank Pressure: 1056 psi      Barometric Pressure: 754 mmHg

Test	g/210L	Time
DIAG	Pass	09:43
BLK	0.000	09:43
CHK	0.101	09:44
BLK	0.000	09:45
CHK	0.100	09:46
BLK	0.000	09:47
CHK	0.100	09:47
BLK	0.000	09:49

**Success**

Standard Value (at sea level): 0.100 g/210L

Certification Status: Success

One point certification done prior to firmware/software upgrade due to certification warning on display.

HMS  
11/22/13

END  
MHL

**Intox EC/IR-II: Accuracy Check**

*Department of Forensic Science*

Serial Number: 010575      Test Number: 348

Test Date: 11/22/2013      Test Time: 09:50 EST

Dry Gas Target: 0.099

Lot Number: AG230501-32      Exp Date: 10/31/2014

Tank Pressure: 1041 psi      Barometric Pressure: 754 mmHg

System Check: *Passed*

Test	g/210L	Time
BLK	0.000	09:50
CHK	0.100	09:51
BLK	0.000	09:53
CHK	0.100	09:53
BLK	0.000	09:55
CHK	0.100	09:55

Test Status: *Success*

Calibration CRC: D7E1F58B



HMS

WHL

**Intox EC/IR-II: Accuracy Check**

*Department of Forensic Science*

Serial Number: 010575      Test Number: 349

Test Date: 11/22/2013      Test Time: 09:58 EST

Dry Gas Target: 0.298

Lot Number: AG322702-01      Exp Date: 08/15/2015

Tank Pressure: 144 psi      Barometric Pressure: 754 mmHg

System Check: *Passed*

Test	g/210L	Time
BLK	0.000	09:58
CHK	*.***	09:58

Test Status: *Excess CO2 on dry gas*

Calibration CRC: D7E1F58B

I was attempting to connect null modem  
cable & leaning to close to the breath tube.

HMS  
11/22/13

HMS  
MSL

**Intox EC/IR-II: Accuracy Check**

*Department of Forensic Science*

Serial Number: 010575      Test Number: 350

Test Date: 11/22/2013      Test Time: 10:00 EST

Dry Gas Target: 0.298

Lot Number: AG322702-01      Exp Date: 08/15/2015

Tank Pressure: 144 psi      Barometric Pressure: 754 mmHg

System Check: *Passed*

Test	g/210L	Time
BLK	0.000	10:01
CHK	0.298	10:01
BLK	0.000	10:03
CHK	0.298	10:04
BLK	0.000	10:05
CHK	0.297	10:06

Test Status: *Success*

Calibration CRC: D7E1F58B

Handwritten marks: "HMS" and "MSL" in the top right corner.

**Intox EC/IR-II: Software Version**

*Department of Forensic Science*

Serial Number: 010575

System Date: 11/22/2013

System Time: 10:36 EST

Software Version: VS00333-K

Software CRC: 56745BCA

Firmware Version: VS00171-CL

Firmware CRC: 7107756B

AMS  
RSC

**Intox EC/IR-II: Calibration**

*Department of Forensic Science*

Serial Number: 010575      Test Number: 351

Test Date: 11/22/2013      Test Time: 10:38 EST

Dry Gas Target: 0.099

Lot Number: 0651210013-06      Exp Date: 04/01/2014

Tank Pressure: 571 psi      Barometric Pressure: 753 mmHg

System Check: *Passed*

Test	g/210L	Time
BLK	0.000	10:39
CAL	0.099	10:40

Test Status: *Success*

Calibration CRC: 8E252651

*HMS*  
*MSL*

**Intox EC/IR-II: Certification**

*Department of Forensic Science*

Serial Number: 010575      Test Number: 352

Test Date: 11/22/2013      Test Time: 10:42 EST

Technician Initials: *HMS*

Dry Gas Target: 0.248

Lot Number: 2961225012-08      Exp Date: 11/01/2014

Tank Pressure: 242 psi      Barometric Pressure: 753 mmHg

System Check: *Passed*

Test	g/210L	Time
DIAG	Pass	10:43
BLK	0.000	10:43
CHK	0.245	10:44
BLK	0.000	10:46
CHK	0.245	10:46
BLK	0.000	10:48
CHK	0.244	10:49
BLK	0.000	10:51

**Success**

Standard Value (at sea level): 0.250 g/210L

Certification Status: Continued

*Handwritten:*  
HMS  
pass

**Intox EC/IR-II: Certification**

*Department of Forensic Science*

Serial Number: 010575      Test Number: 353  
Test Date: 11/22/2013      Test Time: 10:52 EST

Technician Initials: HMS

Dry Gas Target: 0.148

Lot Number: 2951215012-02      Exp Date: 11/01/2014

Tank Pressure: 727 psi      Barometric Pressure: 752 mmHg

System Check: Passed

Test	g/210L	Time
DIAG	Pass	10:52
BLK	0.000	10:53
CHK	0.148	10:54
BLK	0.000	10:55
CHK	0.148	10:56
BLK	0.000	10:57
CHK	0.148	10:58
BLK	0.000	11:00

**Success**

Standard Value (at sea level): 0.150 g/210L

Certification Status: Continued



HMS  
P&L

**Intox EC/IR-II: Certification**

*Department of Forensic Science*

Serial Number: 010575      Test Number: 354

Test Date: 11/22/2013      Test Time: 11:01 EST

Technician Initials: HMS

Dry Gas Target: 0.079

Lot Number: 0771308012-04      Exp Date: 05/01/2015

Tank Pressure: 786 psi      Barometric Pressure: 752 mmHg

System Check: Passed

Test	g/210L	Time
DIAG	Pass	11:01
BLK	0.000	11:02
CHK	0.079	11:03
BLK	0.000	11:04
CHK	0.079	11:05
BLK	0.000	11:06
CHK	0.079	11:07
BLK	0.000	11:08

**Success**

Standard Value (at sea level): 0.080 g/210L

Certification Status: Continued

HMS  
Nell

**Intox EC/IR-II: Certification**

*Department of Forensic Science*

Serial Number: 010575      Test Number: 355  
Test Date: 11/22/2013      Test Time: 11:09 EST

Technician Initials: HMS

Dry Gas Target: 0.020

Lot Number: 0771302011-04      Exp Date: 05/01/2015

Tank Pressure: 884 psi      Barometric Pressure: 752 mmHg

System Check: Passed

Test	g/210L	Time
DIAG	Pass	11:10
BLK	0.000	11:11
CHK	0.019	11:11
BLK	0.000	11:13
CHK	0.019	11:13
BLK	0.000	11:15
CHK	0.019	11:15
BLK	0.000	11:17

**Success**

Standard Value (at sea level): 0.020 g/210L

Certification Status: Success

AMS  
MHL

**Intox EC/IR-II: Accuracy Check**

*Department of Forensic Science*

Serial Number: 010575      Test Number: 356

Test Date: 11/22/2013      Test Time: 11:20 EST

Dry Gas Target: 0.297

Lot Number: AG322702-01      Exp Date: 08/15/2015

Tank Pressure: 134 psi      Barometric Pressure: 752 mmHg

System Check: *Passed*

Test	g/210L	Time
BLK	0.000	11:21
CHK	0.298	11:21
BLK	0.000	11:23
CHK	0.298	11:24
BLK	0.000	11:26
CHK	0.298	11:27

Test Status: *Success*

Calibration CRC: 8E252651

Handwritten initials: HNS and a signature.

**Intox EC/IR-II: Accuracy Check**

*Department of Forensic Science*

Serial Number: 010575      Test Number: 357

Test Date: 11/22/2013      Test Time: 11:30 EST

Dry Gas Target: 0.099

Lot Number: AG230501-32      Exp Date: 10/31/2014

Tank Pressure: 1022 psi      Barometric Pressure: 752 mmHg

System Check: *Passed*

Test	g/210L	Time
BLK	0.000	11:30
CHK	0.099	11:31
BLK	0.000	11:33
CHK	0.100	11:33
BLK	0.000	11:35
CHK	0.099	11:36

Test Status: *Success*

Calibration CRC: 8E252651




COMMONWEALTH OF VIRGINIA  
DEPARTMENT OF FORENSIC SCIENCE

CERTIFICATE OF BLOOD ALCOHOL ANALYSIS  
AS DETERMINED BY A CHEMICAL TEST OF THE ACCUSED'S BREATH

Handwritten initials: HMO and WSL

NAME OF ACCUSED  INSTRUMENT, TEST,	NAME OF COURT  DFS
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BREATH ANALYSIS

SAMPLE EXAMINED AND TEST CONDUCTED BY  STANTON, HEATHER, M		AGENCY  DFS Central Lab
DFS LICENSE NUMBER  18910	LICENSE EXPIRES  10/01/2014	DATE TEST CONDUCTED  11/22/2013
TEST EQUIPMENT NUMBER  010575		

RESULTS: TIME SAMPLE TAKEN 11:43 EST  
SAMPLE'S ALCOHOL CONTENT 0.00 GRAMS PER 210 LITERS OF BREATH

ATTEST:

I CERTIFY THAT THE ABOVE IS AN ACCURATE RECORD OF THE TEST CONDUCTED; THAT THE TEST WAS CONDUCTED WITH THE TYPE OF EQUIPMENT AND IN ACCORDANCE WITH THE METHODS APPROVED BY THE DEPARTMENT OF FORENSIC SCIENCE; THAT THE TEST WAS CONDUCTED IN ACCORDANCE WITH THE DEPARTMENT'S SPECIFICATIONS; THAT PRIOR TO ADMINISTRATION OF THE TEST THE ACCUSED WAS ADVISED OF HIS RIGHT TO OBSERVE THE PROCESS AND SEE THE BLOOD ALCOHOL READING ON THE EQUIPMENT USED TO PERFORM THE BREATH TEST, AND THAT I POSSESS A VALID LICENSE TO CONDUCT SUCH TEST, GIVEN UNDER MY HAND THIS \_\_\_\_\_ DAY OF \_\_\_\_\_, 20 \_\_\_\_\_.

BREATH TEST OPERATOR
----------------------

☐ I HAVE RECEIVED A COPY OF THIS CERTIFICATE OF ANALYSIS \_\_\_\_\_ SUBJECT'S SIGNATURE

☐ SUBJECT REFUSED TO SIGN FOR COPY OF CERTIFICATE OF ANALYSIS \_\_\_\_\_ OPERATOR'S SIGNATURE



# IntoxNet MIS Report

Report Generated 25 Nov 2013 at 09:26

AMS  
RSH

## Test Results

Instrument Serial Number 010575

Test # 000358 Subject Test

Test Location 1 Department of  
Test Date 22 Nov 2013

Test Location 2 Forensic Science  
Test Time 11:37  
Remote/Local Local

Test Location 3  
System Check Passed

Operator's Last Name STANTON  
Agency DFS Central Lab

Operator's First Name HEATHER

Operator's Middle Initial W  
License Number 18910

Card Serial Number 118910

Effective Date 10/01/2012

Expiration Date 10/01/2014

Subject's Last Name INSTRUMENT

Subject's First Name TEST

Subject's Middle Initial

Subject's Date of Birth 00/00/0000

Subject's Sex Male

Driver's License Number

Driver's License Expiration 00/00/0000

Driver's License State

Court Name DFS

End Date 22 Nov 2013 End Time 11:45

Result Time 11:43

Result Date 22 Nov 2013 Result 0.00

Data Type DIAG

Sample Value Pass

Sample Time 11:37

Data Type BLK

Sample Value 0.000

Sample Time 11:38

Data Type CHK

Sample Value 0.100

Sample Time 11:39

Data Type BLK

Sample Value 0.000

Sample Time 11:40

Data Type SUBJ

Sample Value 0.000

Sample Time 11:41

Data Type BLK

Sample Value 0.000

Sample Time 11:42

Data Type SUBJ

Sample Value 0.000

Sample Time 11:43

Data Type BLK

Sample Value 0.000

Sample Time 11:44

Standard Type Dry Gas Std

Standard Value 0.099

Standard Lot Number AG230501-32

Standard Expiration Date 10/31/2014

Tank Pressure 1007

Barometric Pressure 752 mmHg

Blow Sample Number 1 Blow Duration 3.24 sec

Blow Volume 1773 cc End-of-Blow Time 11:41

Blow Sample Number 2 Blow Duration 3.11 sec

Blow Volume 1738 cc End-of-Blow Time 11:43

Tamper Evident Stamp 9fd41009

Test Status Code 0

Test Status Success